

Name: _____

at1113exam: Expand, factor, and solve quadratics (v203)

1. Expand the following expression into standard form.

$$(7x + 6)(7x - 6)$$

2. Solve the equation.

$$(9x + 5)(7x + 8) = 0$$

3. Expand the following expression into standard form.

$$(7x + 6)(9x + 2)$$

4. Expand the following expression into standard form.

$$(3x - 4)^2$$

5. Factor the expression.

$$81x^2 - 25$$

6. Factor the expression.

$$x^2 - 10x + 24$$

7. Solve the equation.

$$12x^2 + 49x + 33 = 5x^2 + 2x + 3$$

8. Solve the equation with factoring by grouping.

$$10x^2 + 12x + 15x + 18 = 0$$